

FIG. 3

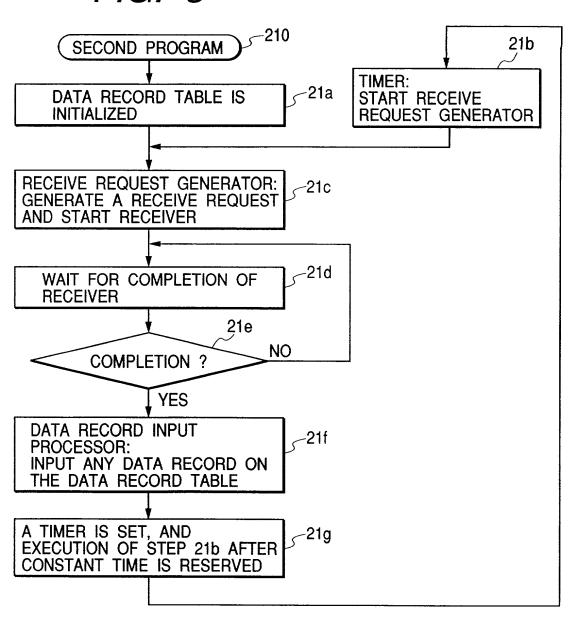


FIG. 4

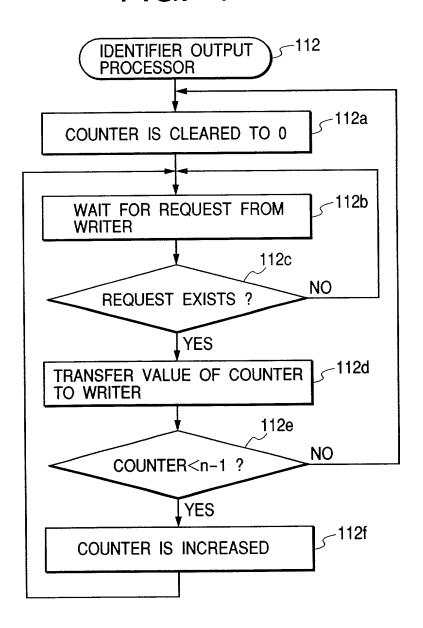
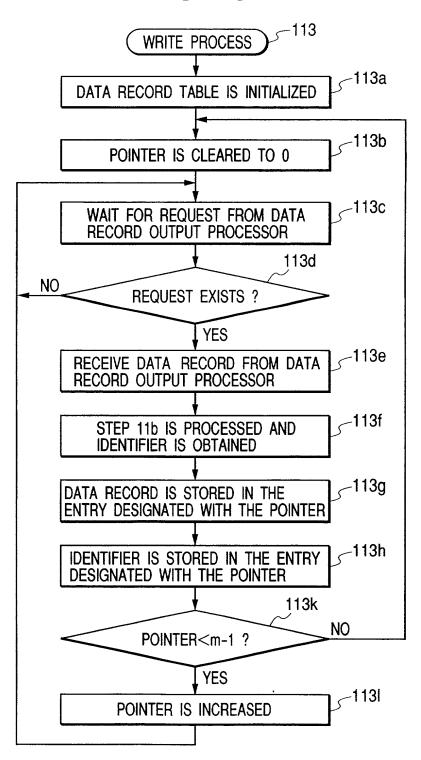


FIG. 5



151

DATA RECORD	TABLE					
	:	IDENTIFIE	R DATA	A RECO	RD	
ENTRY: m-11	152.m-1∽	n-1	EMPTY [DATA RE	CORD	~_153.m-1
ENTRY: m-21	52.m-2√	m-3	EMPTY [DATA RE	CORD	~_153.m-2
ENTRY: m-3-	152.m-3√	m-4	EMPTY [DATA RE	CORD	153.m-3
		•		:		
ENTRY:2→	152.2~	1	EMPTY [DATA RE	CORD	~_153.2
ENTRY:1 →	152.1~	0	EMPTY [DATA RE	CORD	153.1
ENTRY:0 →	152.0 ~	-1	EMPTY (DATA RE	CORD]~_153.0

FIG. 7

251 DATA RECORD TABLE IDENTIFIER DATA RECORD ENTRY: I-1 → 252.I-1 ∽ n-1 **EMPTY DATA RECORD √253.I-1** ENTRY: 1-2 → 252.1-2 ~ 1-3 ~253.I-2 **EMPTY DATA RECORD** ENTRY: I-3 → 252.I-3 ~ **EMPTY DATA RECORD** ~253.I-3 1-4 ~253.2 ENTRY:2→ 252.2~ 1 EMPTY DATA RECORD ~253.1 ENTRY:1 → 252.1~ 0 EMPTY DATA RECORD ENTRY: 0 → ~253.0 252.0~ -1 **EMPTY DATA RECORD**

FIG. 8

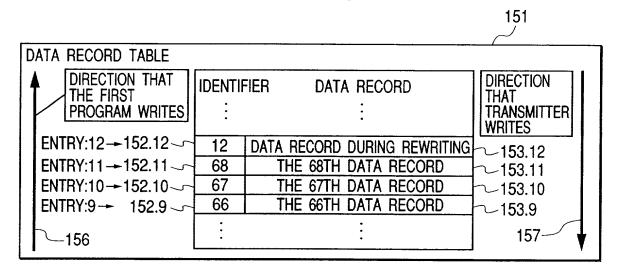
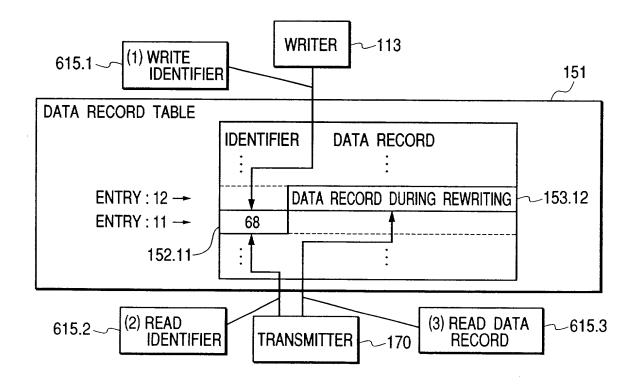


FIG. 9



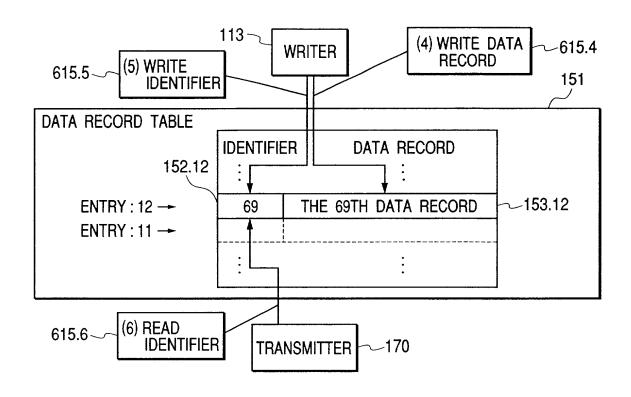
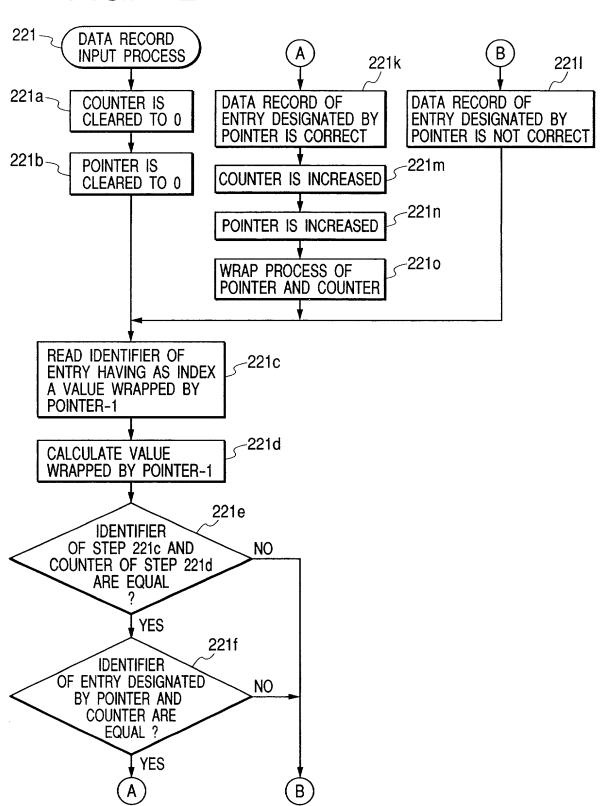
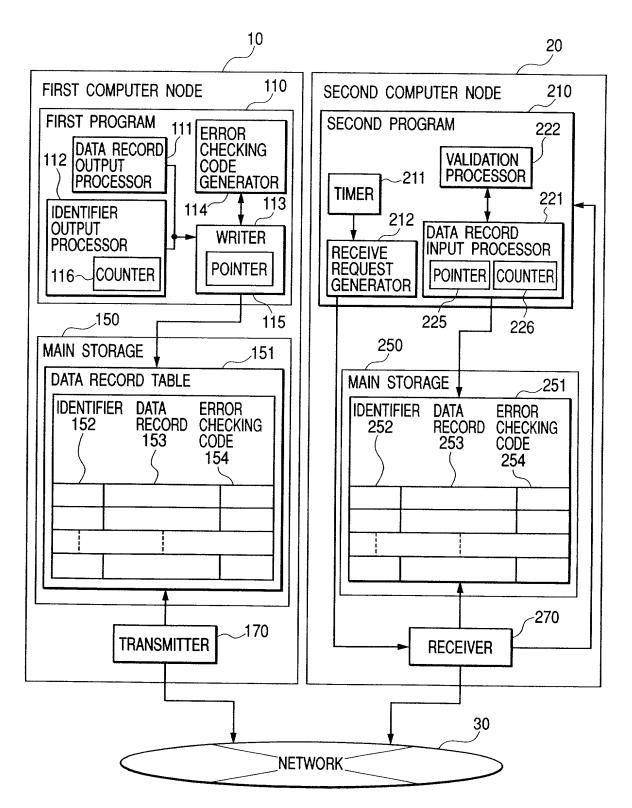


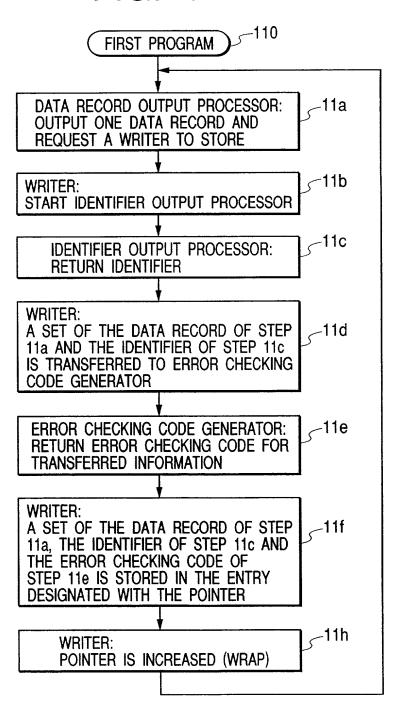
FIG. 11

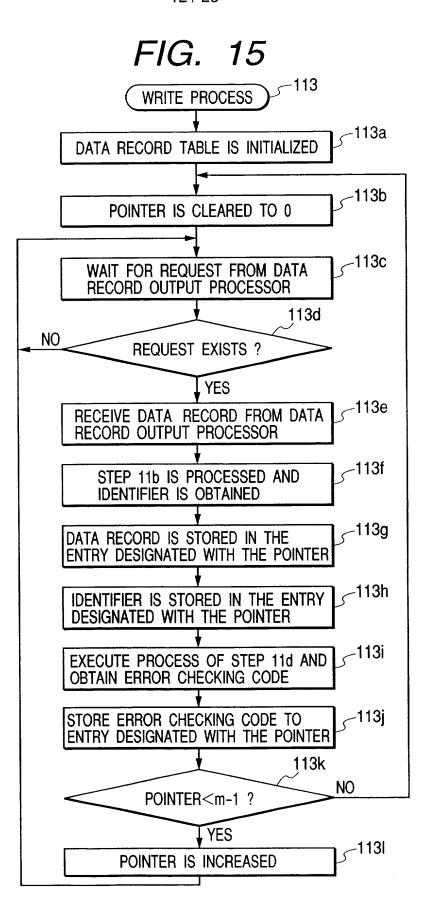
		/	251
DATA RECORD TABLE			
	IDENTIFIE	R DATA RECORD	
	÷	:	
ENTRY: 12 → 252.12 ~	12	DATA RECORD DURING REWRITING	~_253.12
ENTRY: 11 → 252.11 ~	68	THE 68TH DATA RECORD	~~253.11
ENTRY: 10 → 252.10 ∽	67	THE 67TH DATA RECORD	~_253.10
ENTRY:9 → 252.9 ~	66	THE 66TH DATA RECORD	~_253.9
	:	:	

FIG. 12



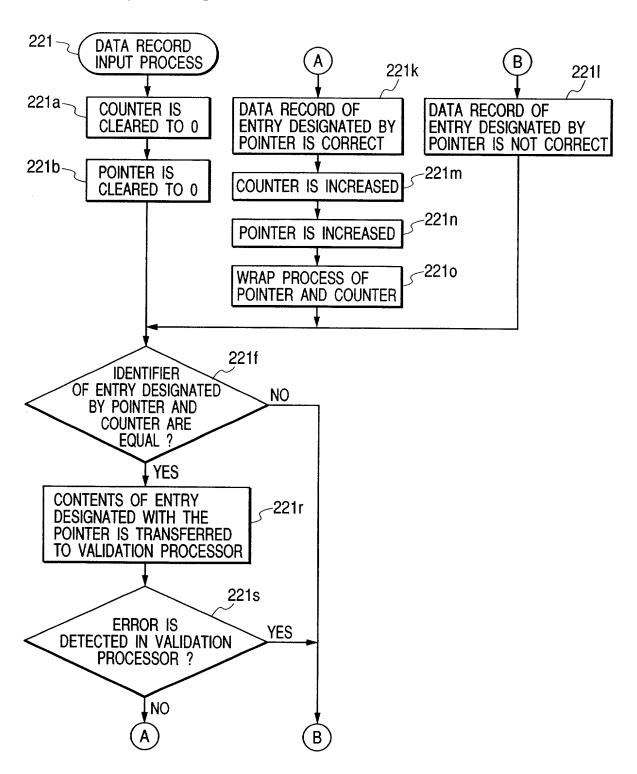






			153	15	51
DATA RECORD TABLE					
	IDENTIFIE	R DATA RECORD	ERROR CHI	ECKING	
ENTRY: m-1 → 152.m-1 ~	n-1	EMPTY DATA RECOR	D INCORRECT	CODE	~~154.m-1
ENTRY : m-2 → 152.m-2 √	m-3	EMPTY DATA RECOR	D INCORRECT	CODE	~_154.m-2
ENTRY: m-3 → 152.m-3 ∽	m-4	EMPTY DATA RECOR	D INCORRECT	CODE	~_154.m-3
	:	:	•		
ENTRY:2→ 152.2√	1	EMPTY DATA RECOR	D INCORRECT	CODE	~_154.2
ENTRY:1 → 152.1 ∽	0	EMPTY DATA RECOR	D INCORRECT	CODE	~_154.1
ENTRY: 0 → 152.0 ~	-1	EMPTY DATA RECOR	DINCORRECT	CODE	~_154.0

		151
DATA RECORD TABLE		
	DENTIFIER DATA RECORD	ERROR CHECKING CODE
	: :	153
ENTRY: 12 → 152.12 ~	12 DATA RECORD DURING RE	EWRITING INCORRECT CODE ~ 154.1
ENTRY: 11 → 152.11 ~	68 THE 68TH DATA RECO	ORD CORRECT CODE ~154.1
ENTRY: 10 → 152.10 ~	67 THE 67TH DATA RECO	
ENTRY:9 → 152.9 ✓	66 THE 66TH DATA RECO	ORD CORRECT CODE 154.9
		:



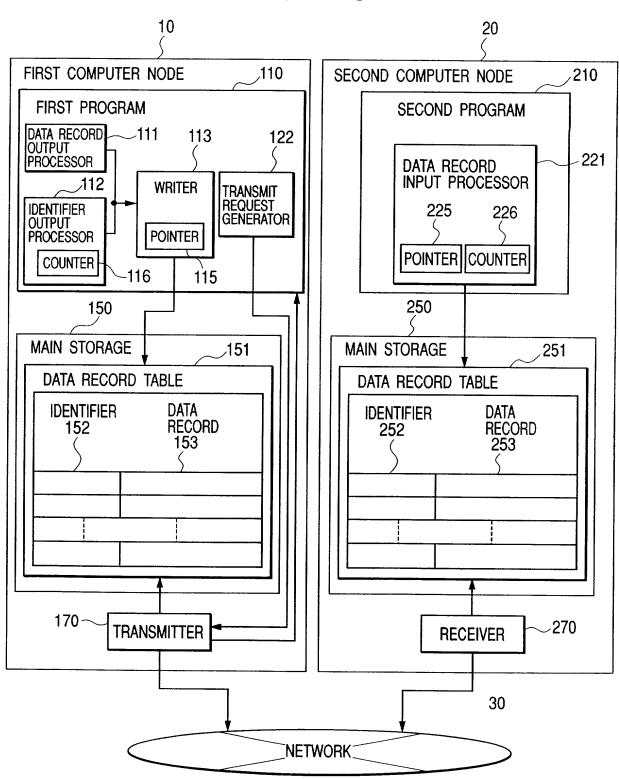


FIG. 20

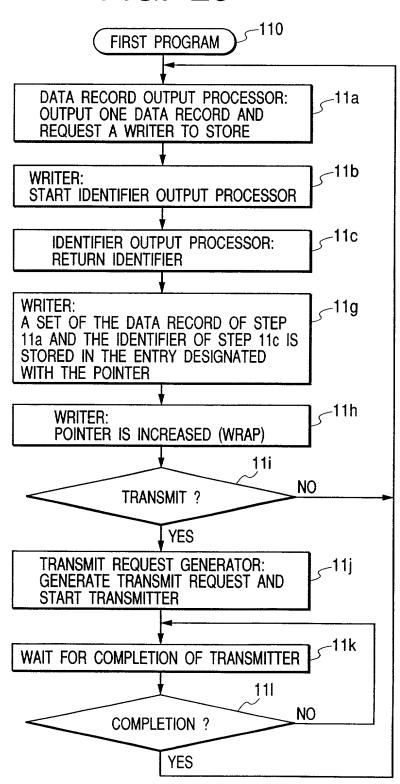
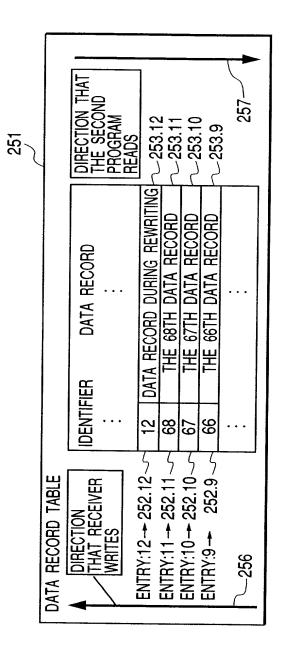
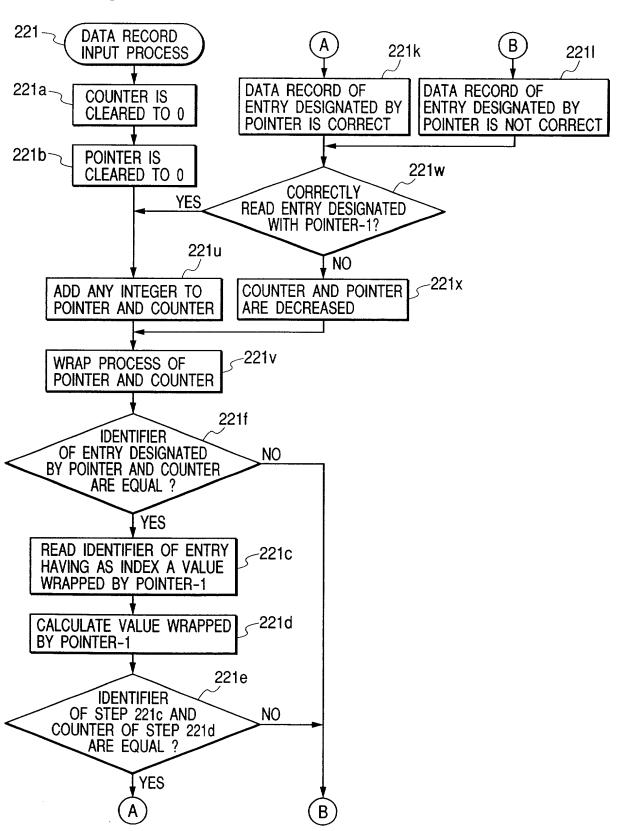
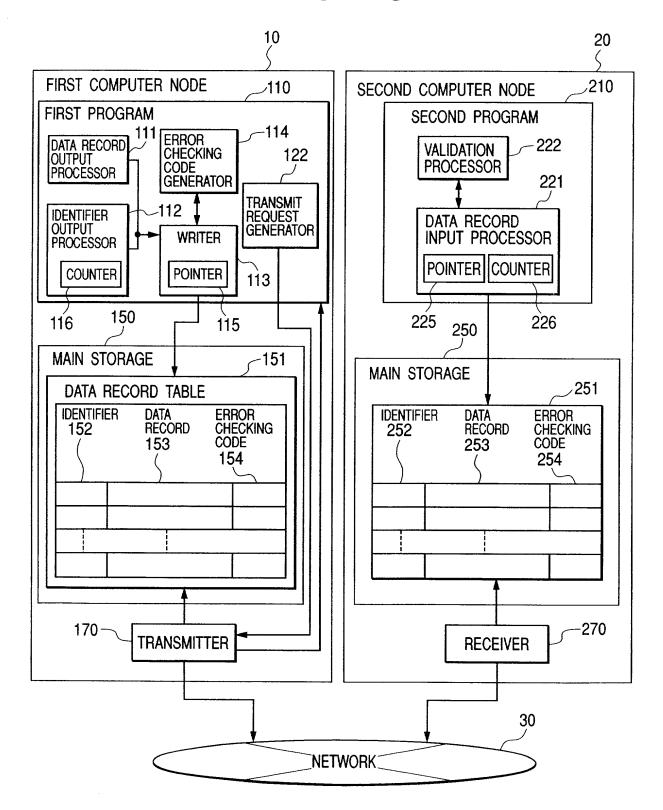


FIG. 21







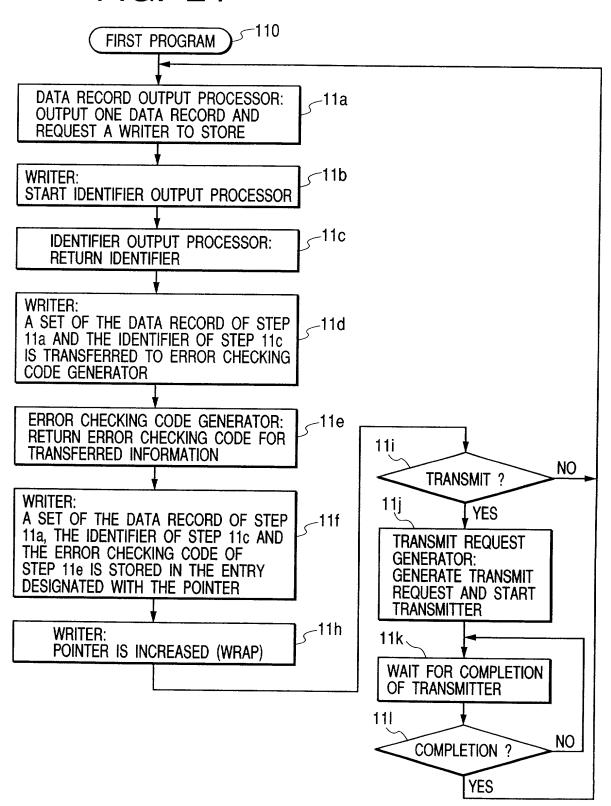
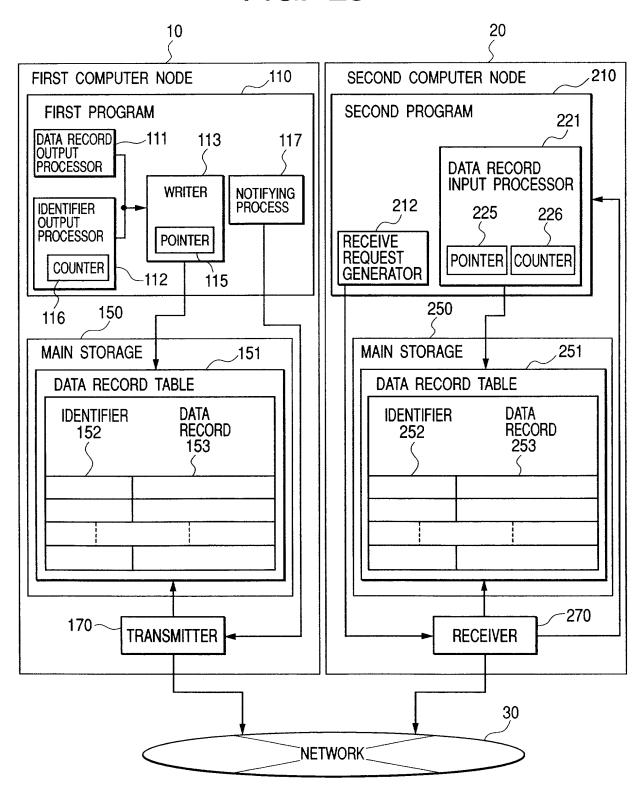


FIG. 25



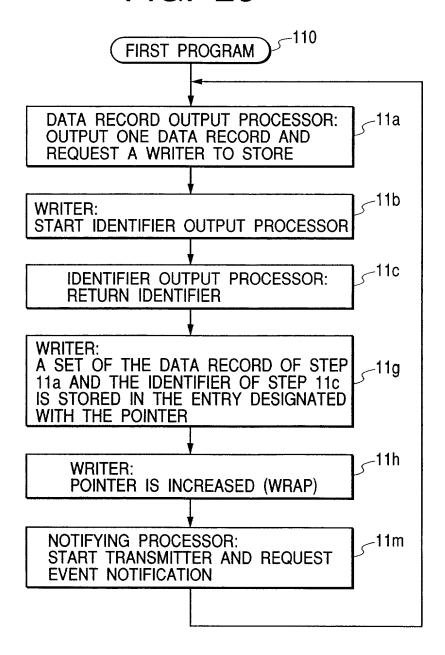
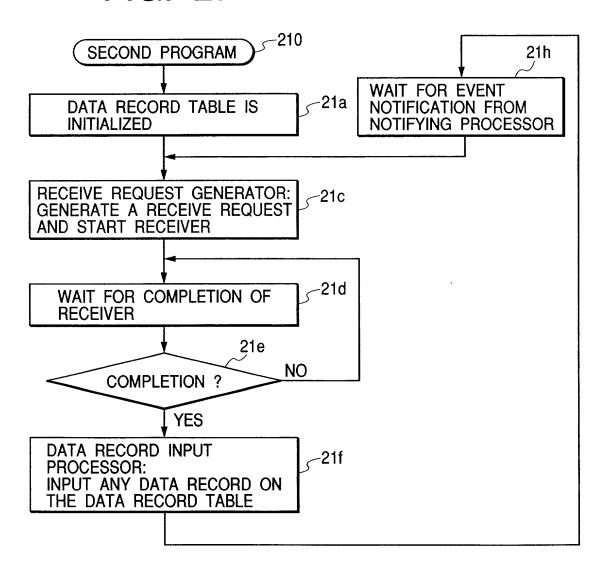
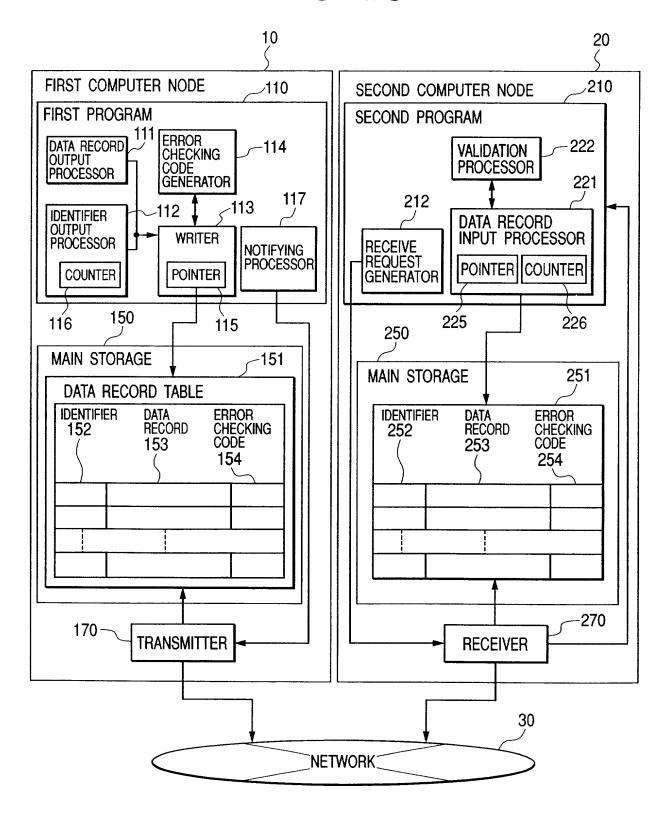
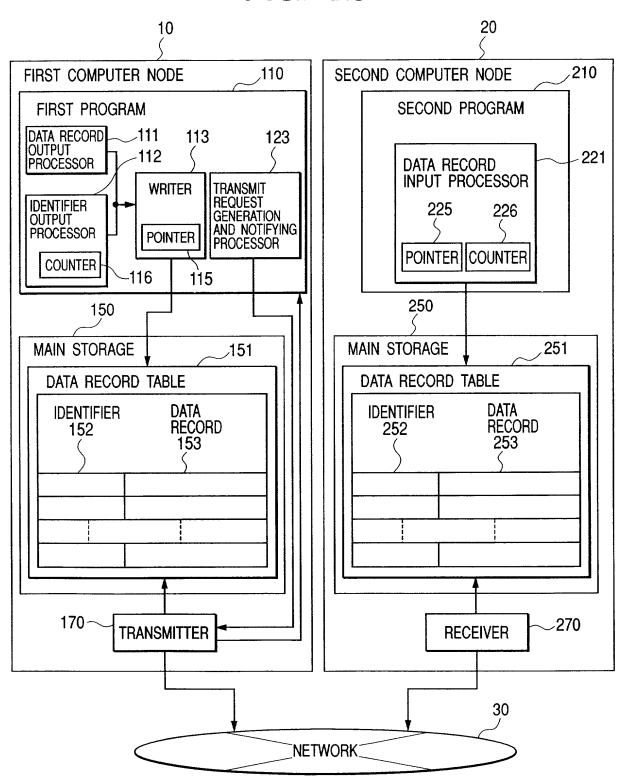
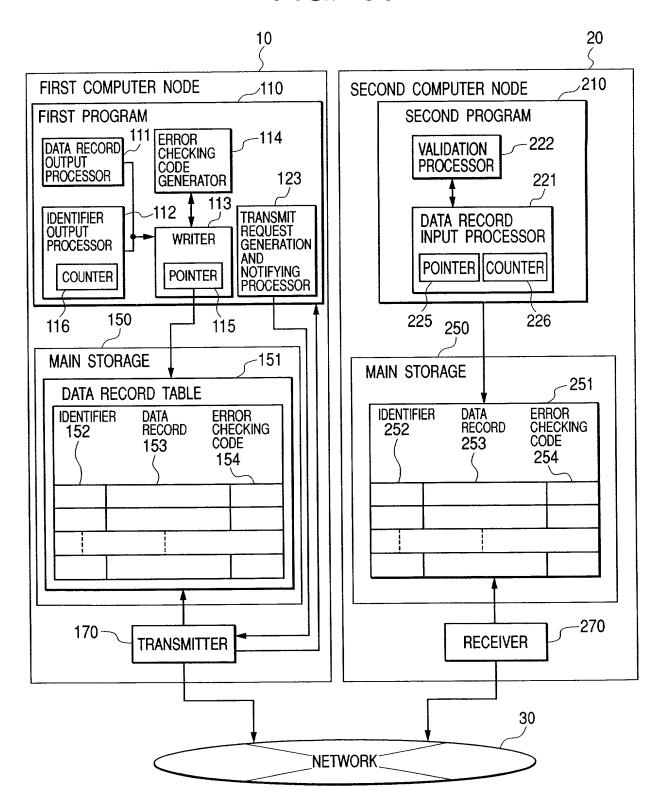


FIG. 27









SECOND COMPUTER NODE INFORMATION SYSTEM ,520 210 **DBMS** 8 251 **BECEINER** FIG. 31 270 8 **HEANSMITTER** 153 15 ,510 JOURNAL JOURNAL JOURNAL FIRST COMPUTER NODE MAINSTAY SYSTEM OLTP 110

FIG. 32

